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PATENT ABSTRACTS OF JAPAN(21) Application number: **57156300**(51) Intl. Cl.: **C22C 33/02 B22F 1/00 B22F 3/24**(22) Application date: **08.09.82**

<p>(30) Priority:</p> <p>(43) Date of application publication: 17.03.84</p> <p>(84) Designated contracting states:</p>	<p>(71) Applicant: AGENCY OF IND SCIENCE & TECHNOL HIROSHIMAKEN</p> <p>(72) Inventor: TORISAKA YASUNORI YOKAI MASAYUKI TSUCHITORI ISAO</p> <p>(74) Representative:</p>
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**(54) PRODUCTION OF
VIBRATION ABSORPTIVE
ALLOY**

(57) Abstract:

PURPOSE: To obtain a vibration absorptive alloy having high damping power and excellent mechanical properties, by molding compressively a mixture of atomized powder contg. Ni and Cr and consisting essentially of iron and sintering the molding then subjecting the sintered molding to rolling at a prescribed ratio or above and to annealing according to need.

CONSTITUTION: A mixture of atomized powder consisting of 15W25wt% Ni, 20W 30wt% Cr and the balance Fe is packed in dies having a prescribed shape and after the mixture is compressively molded under high pressure, the molding is sintered in vacuum. The compressive force in this case is maintained preferably at 7,000Kg/cm² and the sintering is accomplished for about 5hrs at 1,250°C. The resulting sintered body is subjected to cold or hot rolling at $\geq 50\%$ draft and further to annealing at a suitable temp. The resulting vibration absorptive alloy has the internal friction θ -1 exhibiting

approximately $\geq 5 \times 10^{-3}$ value and has $\geq 60 \text{ kgf/mm}^2$ tensile strength which is equivalent to the strength of high-tension steel.

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